

Graft Syringe RTU

9/13/00
JV

4405249 (Expire 3-19-01) (Seals)

- ① X - we have no conical piston
- X - we have no piston deformity
- ⑦ X - requires deformable, conical piston

4,551,135 (Gorman)

- a) closed upper end of barrel
- c) flared barrel
- to facilitate extrusion of mass from barrel
- X - we will have a slightly smaller lower (delivery) end
- flare is in opposite direction

4632732 (Kuitrud)

- a venting syringe plunger
- all claims require O-ring which produces a directional valve
- X - our design has no O-ring + we are always open

4769011 (Swaniger)

- ① X - no plunger guide hole
- no flexible plunger stem
- ①⑨ X - same limitations
- ②⑨ X - same limitations

4820306 (Gorman)

- X - jaw surgery method claims only
- X - flare

4994065 (Gibbs)

x - (caulking gun) patchet. require d

5152763 (Johnson)

- requires: coring of patients bone to produce autograft

: compressing bone

: introduce at acceptor site

→ requires "bone grafter" device to core + then deposit graft elsewhere

(Brandhorst) 5181918

x - requires Valve means (O-ring) for directional vacuum production

5577517 (Bonutti)

① - sealing over graft material placed in an opening in the human body

- conducting a flow of sealant material

④ x - requires removing fluid from particles

5694981 (Bonutti)

① + ④ + ⑧ x - requires suction + removing fluid

5,697,932 (Smith)

① x - requires inserting tube + then removing tube from area + keeping graft in place

④ x - medullary canal (in long bones)

- withdrawing tube while leaving plunger in place

③⑧ x - plunger must be removable in first end of tube

⑥② x - requires tube extractor

5718707 (Mikhail)~~the check valve, diaphragm, + actuating means~~

- ① X - requires guide wire (to trap depression into graft) + ejector member
- ⑤ X - requires guide wire + ejector member
- ⑧ X - requires ejector member (we have 1 plunger, not two)

5772665 (Gled)

X - Check valve, diaphragm, + actuating means.

5824084 (Muschler)

X - Method involving BM aspirate

5925051 (Mikhail)

X - Method of '707, w/ guide wire + ejector member

6019765 (Thornhill)

- JJPI

X- 1 + 10 - rectangular cup + nozzle

X- 11 - plurality of nozzle for injecting ink pasthetics

6048585 (Smith)

- Contn of '932

① X- X. position impression formed in graft by pushing plunger into graft

⑩ X - moving tube away from receiving area + plunger remains

X - cavity w/in graft

6049026 (Muschler)